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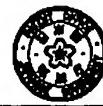
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JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

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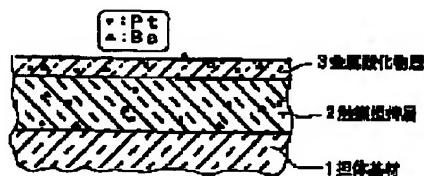
(72) Inventor: ISHIKAWA MICHIO

(54) CATALYST FOR CLEANING EXHAUST GAS AND COPYRIGHT: (C)2000,JPO  
METHOD FOR CLEANING EXHAUST GAS

(57) Abstract:

PROBLEM TO BE SOLVED: To enhance the cleaning rate of NO<sub>x</sub> after the life of an occlusion reduction-type exhaust gas cleaning catalyst beyond the current level of the rate by further inhibiting the sulfur poisoning of the catalyst.

SOLUTION: On the surface of a catalyst carrying layer 2, a metallic oxide layer 3 comprising at least one kind of metallic oxide selected from a transition metal and a rare earth element and a noble metal carried by the metallic oxide. SO<sub>x</sub> is hardly adsorbable in the metallic oxide layer 3 and oxygen present in the interface between the metallic oxide and the noble metal is removed through a reduction reaction. It is considered that the interface part acts as an activation point for the reduction reaction of NO<sub>x</sub>. Thus the NO<sub>x</sub> cleaning power of the catalyst is upgraded.



● TiO <sub>2</sub> 80x=30 )実施例1	□ CeO <sub>2</sub> 80x=30 実施例5
○ TiO <sub>2</sub> 80x=0 )実施例2	■ Fe <sub>2</sub> O <sub>3</sub> 80x=30 実施例6
-▲ Al <sub>2</sub> O <sub>3</sub> 80x=30 )実施例3	◆ Nd <sub>2</sub> O <sub>3</sub> 80x=30 実施例3
-● Al <sub>2</sub> O <sub>3</sub> 80x=0 )比較例1	▲ SrO <sub>2</sub> 80x=30 実施例4
-◆ ZrO <sub>2</sub> 80x=30 )実施例9	-▲ PrO <sub>2</sub> 80x=30 実施例2
-○ ZrO <sub>2</sub> 80x=0 )実施例10	